Philips
LCD widescreen monitor

19" wide
WSXGA+

190BW9CB

TrueVision
SmartImage
SmartContrast
Built-in Speakers
USB Connectivity
SmartErgoBase
VGA dvi DualInput
HDCP ready

CERTIFIED FOR Windows Vista™

High resolution ergonomic widescreen for business

Better wide screen business display: 1680 x 1050 high resolution Philips Brilliance 190BW9 delivering the best-ever LCD picture quality, compact ergo base, built-in sound, Vista-ready, Eco-friendly design to get your job done.

Designed for maximum productivity
- TrueVision ensures top quality LCD display delivered to you
- Empowered for Windows Vista

Outstanding front of screen performance
- 1680x1050 display for increased productivity
- SmartImage: For an optimized display experience
- SmartContrast: Dynamic,optimized contrast for visual clarity

Great convenience
- Built in stereo audio for a clutter-free desktop
- USB port for convenient peripheral connections
- Tilt, swivel and height-adjust for an ideal viewing position
- Hassle-free display performance tuning with SmartControl II
- Auto picture format control switching in wide and 4:3 format
- Dual input accepts both analog VGA and digital DVI signals

PHILIPS
sense and simplicity

LCD widescreen monitor
19" wide WSXGA+

190BW9CB/97

Specifications

Picture/Display
- LCD panel type: Anti-glare polarizer, RGB vertical stripe, 1680 x 1050 pixels
- Panel Size: 18.95"/ 48.1 cm
- Effective viewing area: 408.24 x 255.15 mm
- Pixel pitch: 0.243 x 0.243 mm
- Brightness: 300 cd/m²
- Contrast ratio (typical): 1000:1
- SmartContrast ratio (dynamic): 10000:1
- Display colors: 16.7 M
- Viewing angle: 170° (H) / 160° (V), @ C/R > 10
- Response time (typical): 5 ms
- Maximum Resolution: 1680 x 1050 @ 60 Hz
- Recommended Resolution: 1680 x 1050 @ 60 Hz
- Horizontal Scanning Frequency: 30 - 83 kHz
- Vertical Scanning Frequency: 56 -75 Hz
- Picture enhancement: SmartImage
- sRGB
- Aspect ratio: 16:10

Connectivity
- Signal Input: Analog (VGA), DVI-D, PC Audio in
- USB: 1 x USB 2.0
- Video Sync Input Signal: Composite Sync, Separate Sync, Sync on Green
- Audio output: Stereo Audio (3.5 mm jack) 1x

Convenience
- Built-in Audio: 1 W x 2
- Convenience Enhancements: On-screen Display, SmartManage enabled, SmartControl II, Picture format selection
- Monitor Controls: SmartImage, Auto (Back), Volume control (Down), Brightness (Up), Menu (OK), Power On/Off
- OSD Languages: English, French, German, Italian, Portuguese, Russian, Simplified Chinese, Spanish
- Other convenience: Kensington lock compatible
- Plug & Play Compatibility: DDC/CI, Windows 98, Windows 2000, Windows XP, Windows Vista, Mac OS X, sRGB
- Regulatory Approvals: CE Mark, Energy Star, FCC Class B, TCO '03, TÜV/GS, TÜV Ergo, UL/cUL, SEMKO
- Tilt: -5° to 20°
- Swivel: +/- 45°
- VESA Mount: 100 x 100 mm

Dimensions
- Box dimensions (W x H x D): 508 x 485 x 172 mm
- Box dimensions in inch (W x H x D): 20.0 x 19.1 x 6.77 inch
- Set dimensions (W x H x D): 436 x 305 x 68 mm
- Set dimensions in inch (W x H x D): 17.2 x 12.0 x 2.68 inch
- Set dimensions with stand (W x H x D): 436 x 421 x 201 mm
- Set dimensions with stand in inch (W x H x D): 17.2 x 16.6 x 7.91 inch
- Height adjustment range: 70 mm
- Height adjustment range (inch): 2.76 inch
- MTBF: 50,000 hrs
- Relative humidity: 20% - 80%
- Temperature range (operation): 0°C to 40°C
- Temperature range (storage): -20°C to 60°C
- Product weight (+stand): 4.45 kg
- Product weight (+stand) (lb): 9.81 lb
- Weight incl. Packaging: 6.1 kg
- Weight incl. Packaging (lb): 13.4

Power
- Complies with: Energy Star
- Consumption: < 36W (typical)
- Consumption (economy mode): 27 W
- Off Mode: < 0.8 W
- Power LED indicator: Operation - Blue, Stand by/ sleep -blue(blinking)
- Power supply: Built-in, 100-240VAC, 50/60Hz

Product highlights

TrueVision
TrueVision is industry-leading, proprietary Philips testing and algorithm technology for monitor adjustment and fine tuning, an extensive process that ensures ultimate display performance in compliance with a standard four-times more stringent than Microsoft's Vista requirements from each and every monitor that leaves the factory - not just a few review samples. Only Philips goes to these lengths to deliver this exacting level of color accuracy and display quality in every new monitor.

Windows Vista ready
Philips Vista-ready monitors are empowered for vibrant, exciting display of this new, visually sophisticated and demanding Windows operating system, designed to enhance your entertainment experience, make you more productive and help you control your computing experience at home and in the office, making viewing, finding and organizing information for work or play quick, efficient and easy.

WSXGA, wide format 1680x1050
Wide format, super extended graphics array is a display specification that is capable of displaying 1680 x 1050 resolution or approximately 1.7 million pixels.

SmartImage
SmartImage is an exclusive, leading edge Philips technology that analyzes the content displayed on your screen. Based on a scenario you select, SmartImage dynamically enhances the contrast, color saturation and sharpness of images and videos for ultimate display performance - all in real time with the press on a single button.

SmartContrast
SmartContrast is Philips technology that analyzes the contents you are displaying, automatically adjusting colors and controlling backlight intensity to dynamically enhance contrast for the best digital images and optimum contrast for more entertainment fun when viewing videos or playing games where dark hues are displayed; when you select the Economy mode, contrast is adjusted and backlighting fine-tuned for just-right display of everyday office applications and lower power consumption.

Built-in stereo audio
A pair of high quality stereo audio built into a display device.

USB 2.0 port
The universal serial bus or USB is a standard protocol for linking PCs and peripherals. Because it delivers high speed at a low cost, USB has become the most popular method for connecting peripheral devices to a computer. A port located on a monitor directly in the user's line of sight provides easy, high-speed connectivity for USB devices at a convenient location. (USB 2.0 support is dependent on your PC's USB configuration; when connected to a PC that supports USB 2.0, your monitor is USB 2.0 compatible)

Compact Ergo Base
The Compact Ergo Base is a 'people friendly' Philips monitor base that tilts, swivels and height adjusts so each user can position the monitor for maximum viewing comfort and efficiency.

SmartControl II
SmartControl II is monitor-based software with an easy-to-use on-screen graphic interface that guides you through fine-tuning resolution, color calibration and other display settings including brightness, contrast, clock & phase, position, RGB, white point and - on models with onboard speakers - volume adjustments.

Dual input
Dual input provides connectors to accommodate input of both analog VGA and digital DVI signals.

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